

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/10825A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01P1/203

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^o	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 128 460 A (MURATA MANUFACTURING CO) 29 August 2001 (2001-08-29) paragraphs '0080!, '0108!; claims 3,4	1
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10, 17 November 2000 (2000-11-17) -& JP 2000 209002 A (MATSUSHITA ELECTRIC IND CO LTD), 28 July 2000 (2000-07-28) abstract; figure 4	1
A	US 5 136 268 A (FIEDZIUSZKO SLAWOMIR J ET AL) 4 August 1992 (1992-08-04) column 3, line 6-9; figure 2C	1
A	US 6 157 274 A (KATO HIDEYUKI ET AL) 5 December 2000 (2000-12-05) claim 1; figure 13	1
	—/—	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

3 March 2004

Date of mailing of the International search report

10/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Den Otter, A

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/10825

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10, 31 October 1997 (1997-10-31) -& JP 09 162610 A (MATSUSHITA ELECTRIC IND CO LTD), 20 June 1997 (1997-06-20) abstract; figures 5A,B</p> <p>—</p>	1
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2002, no. 03, 3 April 2002 (2002-04-03) -& JP 2001 320204 A (MURATA MFG CO LTD), 16 November 2001 (2001-11-16) abstract; figure 5</p> <p>—</p>	1

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/10825

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1128460	A	29-08-2001	JP	3395754 B2		14-04-2003
			JP	2001237610 A		31-08-2001
			EP	1128460 A1		29-08-2001
			US	2003160667 A1		28-08-2003
			US	2002053959 A1		09-05-2002
JP 2000209002	A	28-07-2000		NONE		
US 5136268	A	04-08-1992	CA	2063119 A1		20-10-1992
			DE	69210460 D1		13-06-1996
			DE	69210460 T2		28-11-1996
			EP	0509636 A1		21-10-1992
			JP	2589247 B2		12-03-1997
			JP	5251904 A		28-09-1993
US 6157274	A	05-12-2000	JP	11186819 A		09-07-1999
			CN	1221229 A		30-06-1999
			GB	2332785 A ,B		30-06-1999
JP 09162610 2	A			NONE		
JP 2001320204	A	16-11-2001		NONE		

BEST AVAILABLE COPY